

NOTES: UNLESS OTHERWISE SPECIFIED

1. NUMBERS LOCATED IN AND ARE FOR DIMENSION IDENTIFICATION ONLY.
(SEE CHART ON EACH SHEET).

2. DO NOT SCALE THIS DRAWING.

3. KEYBOARD TO BE IN ACCORDANCE WITH TEXAS INSTRUMENTS SPECIFICATION NUMBER _____.

4. MECHANICAL PERFORMANCE UNDER NORMAL CONDITIONS:

- A) KEY TRAVEL (STROKE): $1.0 \pm .1$
- B) ACTUATION FORCE: 60 ± 10 GR. INITIALLY.
- C) RELEASE FORCE: 15 GR. MIN.-TACTILE FEEDBACK.
- D) CYCLE LIFE: >1000,000 CYCLES.
- E) CONTACT BOUNCE: LESS THAN 5MS.

5. ELECTRICAL REQUIREMENTS:-

- A) CONTACT RESISTANCE: 100 OHMS MAX.-INITIAL
(AT 80 μ A CURRENT) 350 OHMS MAX. - END OF LIFE AND POST ENVIRONMENTAL.
- B) INSULATION RESISTANCE: 10 MOEGOHMS @ 50 VOLTS D.C.
- C) DIELECTRIC STRENGTH: 50 VOLTS RMS MIN.
- D) TYPICAL OPERATING CONDITIONS: 0.35-9.5 VOLTS, 80 μ A CURRENT TYPICAL, 220 μ A MAX.

6. ENVIRONMENTAL REQUIREMENTS:

- A) TEMPERATURE:
 - (a) OPERATING: 32°F TO 135°F - 4 HOURS EACH EXTREME, 20 CYCLES.
 - (b) STORAGE: -40°F TO 158°F - 1000 HOURS EACH EXTREME.
- B) HUMIDITY:
 - (a) OPERATING: 80% R.H. AT 104°F FOR 48 HOURS.
 - (b) STORAGE: 95% R.H. AT 122°F FOR 360 HOURS.

7. NO SCRATCHES OR STRAINS ARE ALLOWED ON THE SURFACE OF KEYTOPS.

8. KEYTOPPER GRAPHICS AND COLOR SPECIFICATION WILL BE PROVIDED BY TEXAS INSTRUMENTS.

9. PREPARATION FOR DELIVERY: PACKING SHALL BE AS SPECIFIED IN SPECIFICATION NO. 1010765, TYPE 6 (BULK PACK.)

10. ELECTRIC CONDUCTIVE AND NON CONDUCTIVE SILICONE RUBBER,
COLOR: BLACK & GRAY RESPECTIVELY.

ZONE	LTR	DESCRIP.	DATE	APPROVED
A		NO ECN CGang 10-23-81 UPDATED DRAWING, IT WAS SK072781	10/23/81	G Gang
B		NO ECN CGang 2-17-82 DIM 265 WAS 2.30	2/17/82	
C		NO ECN CGang 2-23-82 SHT 3. DIM 313 WAS 5.0 DIA, ADDED HOLES & DIMS 324-351.	2/23/82	G Gang
D		NO ECN T.P. Brown 3-11-82 SHT 1-ADDED NOTE 9 & 10 SHT 3-ADDED 15.00 DIME DIM IDENTIFIERS 352 & 353	3/11/82	C Gang
E		NO ECN CGang 3-31-82 SHT 2-CHANGE DIM. 201,202,205 THRU 214,217,219 & 223 FROM COORDINATE DIM TO DATUM DIM.	3/31/82	C Gang

FOR INFORMATION ONLY	
DATE APR 07 1982	

2	1044480-0101	KEYBOARD TOPPER	3	8	10	
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL			

DIMENSION IDENTIFIERS		USED		NOT USED		UNLESS OTHERWISE SPECIFIED	
						• DIMENSIONS ARE IN MM	OWN: Charlie Gang 8-10-91
						• TOLERANCES ANGLES $\pm 1^\circ$	DATE: 8-10-91
						2 PLACE DECIMALS ± 0.13	CHK: G.P. Brown 4-5-82
						1 PLACE DECIMALS ± 0.3	DESIGNER: Charlie Gang 10-23-81
						• DIMENSIONING IN ACCORDANCE WITH ANSI Y14.5	QA: G.P. Brown 4-5-82
						MATERIAL:	APVO: G.P. Brown 3/14/82
							PRODUCT ENG: G.P. Brown 3/14/82
							DESIGN ACTIVITY RELEASE: G.P. Brown 3/14/82
							SUP DWG: D
							SIZE: D
							DRAWING NO: 1044480
							SCALE NOTED: REV LTR: E
							SHEET 1 OF 3

TEXAS INSTRUMENTS
INCORPORATED
CALCULATOR PRODUCTS DIVISION

KEYBOARD, ELASTOMER
WITH KEYTOPPERS

D

C

B

A



